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PTO/SB/21 (08-00)

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Approved for use through 10/31/02. OMB 0651-0031
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/067,832
Filing Date	June 3, 2002
First Named Inventor	Paul Zev ZIMMET et al.
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Total Number Of Pages In This Submission	23
Attorney Docket No.	229752000701

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) -	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition for Expedited Handling	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request - 1 Month	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1. Copy of Notice to Comply w/attachments received from US PTO;
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2. Paper copy of corrected Sequence Listing;
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3. Floppy Disk with electronic version of corrected sequence listing.
<input checked="" type="checkbox"/> Response to Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

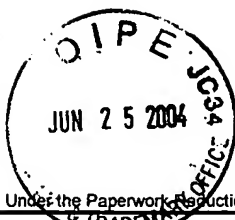
Firm Or Individual Name	Wayne C. Jaeschke, Jr., Registration No. 38,503
Signature	By James Remenick Reg No 36,902
Date	June 25, 2004

CERTIFICATE OF HAND DELIVERY

I hereby certify that this correspondence is being hand filed with the United States Patent and Trademark Office in Alexandria, Virginia on June 25, 2004.

Debbie Labriny

Burden Hours Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.



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PTO/SB/17 (10-02)
Approved for use through 10/31/2002. OMB 0651-0032

FEE TRANSMITTAL for FY 2003 <small>Patent fees are subject to annual revision.</small>		Complete if Known	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/067,832
TOTAL AMOUNT OF PAYMENT (\$)		Filing Date	June 3, 2002
110.00		First Named Inventor	Paul Zev ZIMMET et al.
		Examiner Name	Not Yet Assigned
		Group Art Unit	Not Yet Assigned
		Attorney Docket No.	229752000701

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)	
<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card	3. ADDITIONAL FEES	
<input type="checkbox"/> Money Order	<input type="checkbox"/> Other		
<input type="checkbox"/> None			
<input checked="" type="checkbox"/> Deposit Account			
Deposit Account Number	03-1952		
Deposit Account Name	Morrison & Foerster LLP		
The Commissioner is hereby authorized to: (check all that apply)			
<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input checked="" type="checkbox"/> Credit any overpayments		
<input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application			
<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.			

FEE CALCULATION	
1. BASIC FILING FEE	
Large Entity	Small Entity
Fee Code	Fee Code
Fee (\$)	Fee (\$)
Fee Description	Fee Paid
1001 750	2001 370
1002 330	2002 165
1003 510	2003 255
1004 740	2004 370
1005 160	2005 80
SUBTOTAL (1) (\$)	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	
Total Claims	-20** =
Independent Claims	-3** =
Multiple Dependent	280 =
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Fee Code	Fee Code
Fee (\$)	Fee (\$)
Fee Description	Fee Paid
1202 9	2202 9
1201 84	2201 42
1203 280	2203 140
1204 84	2204 42
1205 18	2205 9
SUBTOTAL (2) (\$)	

3. ADDITIONAL FEES	
Large Entity	Small Entity
Fee Code	Fee Code
Fee (\$)	Fee (\$)
Fee Description	Fee Paid
1051 130	2051 65
1052 50	2052 25
1053 130	1053 130
1812 2,520	1812 2,520
1804 920*	1804 920*
1805 1,840*	1805 1,840*
1251 110	2251 55
1252 400	2252 200
1253 920	2253 460
1254 1,440	2254 720
1255 1,960	2255 980
1401 320	2401 160
1402 320	2402 160
1403 280	2403 140
1451 1,510	1451 1,510
1452 110	2452 55
1453 1,280	2453 640
1501 1,280	2501 640
1502 460	2502 230
1503 620	2503 310
1460 130	1460 130
1807 50	1807 50
1806 180	1806 180
8021 40	8021 40
1809 740	2809 370
1810 740	2810 370
1801 740	2801 370
1802 900	1802 900
Other fee (specify)	
SUBTOTAL (3) (\$)	

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Wayne C. Jaeschke, Jr.	Registration No. (Attorney/Agent)	38,503
Signature	<i>By James Remenick</i>	Telephone	(703) 760-7756
	<i>Rg. No. 36,902</i>	Date	June 25, 2004



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/067,832	06/03/2002	Paul Zev Zimmet	229752000701

25227

MORRISON & FOERSTER LLP

1650 TYSONS BOULEVARD

SUITE 300

MCLEAN, VA 22102

Sequence Date
RECEIVED
REMINDER: 4/25/04
DUE DATE: 5/25/04
FINAL DUE DATE: 10/25/04

CONFIRMATION NO. 3004

FORMALITIES LETTER



OC000000012191950

Date Mailed: 03/25/2004

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Filing Date Granted

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
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Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

A handwritten signature in black ink, appearing to read "Muyin", is written over a horizontal line.

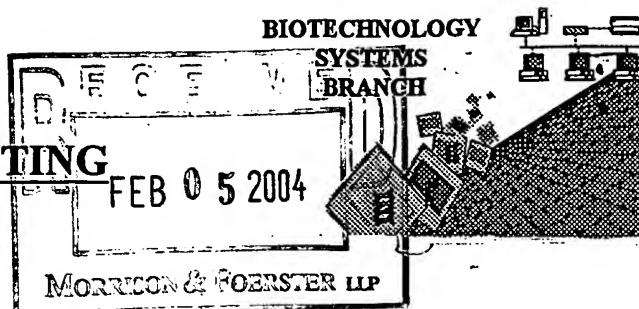
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



RAW SEQUENCE LISTING **ERROR REPORT**



0590
09/2

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/067,832A
Source: OIPF
Date Processed by STIC: 9/12/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
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3. Hand Carry directly to:
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Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/067,832A

DATE: 09/12/2002
TIME: 15:41:50

Input Set : A:\EP.txt
Output Set: N:\CRF4\09122002\J067832A.raw

5 <110> APPLICANT: COLLIER, G
7 ZIMMET, P Z
11 <120> TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR
15 <130> FILE REFERENCE: ejh/af
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/067,832A
C--> 21 <141> CURRENT FILING DATE: 2002-06-03
25 <150> PRIOR APPLICATION NUMBER: PP0117
27 <151> PRIOR FILING DATE: 1997-10-31
31 <150> PRIOR APPLICATION NUMBER: PP0323
33 <151> PRIOR FILING DATE: 1997-11-11
37 <160> NUMBER OF SEQ ID NOS: 14
41 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

463 <210> SEQ ID NO: 14
465 <211> LENGTH: 33
467 <212> TYPE: PRT
469 <213> ORGANISM: Homo sapiens
473 <400> SEQUENCE: 14
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477 1 5 10 15
481 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
483 20 25 30
487 Ala

— See p. 3 for explanation

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/067,832A

DATE: 09/12/2002
TIME: 15:41:51

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Output Set: N:\CRF4\09122002\J067832A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,78,80
Seq#:1; Line(s) 82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114
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Seq#:2; Line(s) 118,120,122,124,126,128,130,132,134,136,138,140,142,144,146
Seq#:2; Line(s) 148,150,152,154,155,157,159
Seq#:3; Line(s) 161,163,165,167,169,171,173,175,177,179,181,183,185,187,189
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Seq#:4; Line(s) 209,211,213,215,217,219,221,223,225,227,229,231
Seq#:5; Line(s) 232,234,236,238,240,242,244,246,248,250,252,254
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Seq#:14; Line(s) 465,467,469,471,473,475,477,479,481,483,485,487,489,491
Seq#:14; Line(s) 493,495

VARIABLE LOCATION SUMMARY

DATE: 09/12/2002

PATENT APPLICATION: US/10/067,832A

TIME: 15:41:51

Input Set : A:\EP.txt

Output Set: N:\CRF4\09122002\J067832A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:13; N Pos. 44

Seq#:13; Xaa Pos. 15

Seq#:14; Xaa Pos. 15

VERIFICATION SUMMARY

DATE: 09/12/2002

PATENT APPLICATION: US/10/067,832A

TIME: 15:41:51

Input Set : A:\EP.txt

Output Set: N:\CRF4\09122002\J067832A.raw

L:19 M:270 C: Current Application Number differs, Replaced Application Number
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:440 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:442 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:48
L:475 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14



SEQUENCE LISTING



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<120> A method of prophylaxis and treatment

<130> 2337880/EJH

<140> International

<141> 2000-10-20

<150> PQ3627

<151> 1999-10-22

<150> PQ4347

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<151> 2000-05-19

<160> 1

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

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5

10

15